

SolarTech Power Solutions

Thailand Hydrogen Energy solar Site Energy



Overview

Can green hydrogen and hydrogen-based technologies improve Thailand's energy transition?

High dependence on fossil fuels to meet the energy demand is the major source of greenhouse gas (GHG) emissions in Thailand. Decarbonization of the energy system to achieve the pledged climate targets is a challenging task for Thailand. The role of green hydrogen and hydrogen-based technologies in Thailand's energy transition needs to be explored.

Does Thailand have a commercial hydrogen project?

Based on the data obtained from Thailand's hydrogen projects establishing by the Energy Policy and Planning Office (EPPO), Ministry of Energy, it is found that the commercial hydrogen is limited to industrial sector, however future projects aim towards the energy sector [7, 8].

Why does Thailand need hydrogen?

Decarbonisation: One of the primary drivers of hydrogen demand in Thailand is the commitment to decarbonize the energy sector. Hydrogen, particularly green hydrogen, is seen as a vital tool in reducing greenhouse gas emissions and transitioning away from fossil fuels.

How can Thailand produce green hydrogen?

Green Hydrogen Production: Thailand's abundant solar and wind resources provide a solid foundation for green hydrogen production. The development of renewable energy projects is expected to bolster green hydrogen generation.

Could hydrogen transform Thailand's energy future?

With nations worldwide recognising the urgency of decarbonising their economies, Thailand stands at the precipice of an energy transition that promises a greener, more sustainable future. At the heart of this transformation lies hydrogen - an element that has the potential to redefine

energy and pave the way for a cleaner, more prosperous Thailand.

What is Thailand's energy transition?

Blue Hydrogen: Thailand is also exploring the possibilities of blue hydrogen, produced from natural gas with carbon capture and storage, which represents a cleaner alternative, bridging the transition to fully green hydrogen. **Green Hydrogen:** The shining star of Thailand's energy transition, green hydrogen, is produced from renewable energy sources.

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